



ENVIRONMENTAL PROTECTION AGENCY

[EPA-HQ-OPPT-2016-0741; FRL-9944-01-OCSPP]

1-Bromopropane (1-BP); Draft Revision to Toxic Substances Control Act (TSCA) Risk Determination; Notice of Availability and Request for Comment

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice.

SUMMARY: The Environmental Protection Agency (EPA) is announcing the availability of and seeking public comment on a draft revision to the risk determination for the 1-bromopropane (1-BP) risk evaluation issued under TSCA. The draft revision to the 1-BP risk determination reflects the announced policy changes to ensure the public is protected from unreasonable risks from chemicals in a way that is supported by science and the law. In this draft revision to the risk determination EPA finds that 1-BP, as a whole chemical substance, presents an unreasonable risk of injury to health when evaluated under its conditions of use. In addition, this revised risk determination does not reflect an assumption that all workers always appropriately wear personal protective equipment (PPE). EPA understands that there could be occupational safety protections in place at workplace locations; however, not assuming use of PPE reflects EPA's recognition that unreasonable risk may exist for subpopulations of workers that may be highly exposed because they are not covered by OSHA standards, or their employers are out of compliance with OSHA standards, or because OSHA has not issued a permissible exposure limit (PEL) (as is the case for 1-BP). This revision, when final, would supersede the condition of use-specific no unreasonable risk determinations in the August 2020 1-BP risk evaluation (and withdraw the associated order) and would make a revised determination of unreasonable risk for 1-BP as a whole chemical substance.

DATES: Comments must be received on or before **[INSERT DATE 30 DAYS AFTER DATE OF PUBLICATION IN THE *Federal Register*]**.

ADDRESSES: Submit your comments, identified by docket identification (ID) number EPA-EPA-HQ-OPPT-2016-0741, using the *Federal eRulemaking Portal* at <https://www.regulations.gov>. Follow the online instructions for submitting comments. Do not submit electronically any information you consider to be Confidential Business Information (CBI) or other information whose disclosure is restricted by statute. Additional instructions on commenting and visiting the docket, along with more information about dockets generally, is available at <https://www.epa.gov/dockets>.

FOR FURTHER INFORMATION CONTACT: *For technical information contact:* Amy Shuman, Office of Pollution Prevention and Toxics (7404M), Environmental Protection Agency, 1200 Pennsylvania Ave. NW, Washington, DC 20460-0001; telephone number: (202) 564-2978; email address: shuman.amy@EPA.gov.

For general information contact: The TSCA-Hotline, ABVI-Goodwill, 422 South Clinton Ave., Rochester, NY 14620; telephone number: (202) 554-1404; email address: TSCA-Hotline@epa.gov.

SUPPLEMENTARY INFORMATION:

I. Executive Summary

A. Does this action apply to me?

This action is directed to the public in general. This action may, however, be of interest to those involved in the manufacture, processing, distribution, use, disposal, and/or the assessment of risks involving chemical substances and mixtures. You may be potentially affected by this action if you manufacture (defined under TSCA to include import), process (including recycling), distribute in commerce, use or dispose of 1-BP, including 1-BP in products. Since other entities may also be interested in this draft revision to the risk determination, EPA has not attempted to describe all the specific entities that may be affected by this action.

B. What is EPA's authority for taking this action?

TSCA section 6, 15 U.S.C. 2605, requires EPA to conduct risk evaluations to determine

whether a chemical substance presents an unreasonable risk of injury to health or the environment, without consideration of costs or other non-risk factors, including an unreasonable risk to a potentially exposed or susceptible subpopulation (PESS) identified as relevant to the risk evaluation by the Administrator, under the conditions of use. 15 U.S.C. 2605(b)(4)(A). TSCA sections 6(b)(4)(A) through (H) enumerate the deadlines and minimum requirements applicable to this process, including provisions that provide instruction on chemical substances that must undergo evaluation, the minimum components of a TSCA risk evaluation, and the timelines for public comment and completion of the risk evaluation. TSCA also requires that EPA operate in a manner that is consistent with the best available science, make decisions based on the weight of the scientific evidence, and consider reasonably available information. 15 U.S.C. 2625(h), (i), and (k).

The statute identifies the minimum components for all chemical substance risk evaluations. For each risk evaluation, EPA must publish a document that outlines the scope of the risk evaluation to be conducted, which includes the hazards, exposures, conditions of use, and the potentially exposed or susceptible subpopulations that EPA expects to consider. 15 U.S.C. 2605(b)(4)(D). The statute further provides that each risk evaluation must also: (1) integrate and assess available information on hazards and exposures for the conditions of use of the chemical substance, including information that is relevant to specific risks of injury to health or the environment and information on relevant potentially exposed or susceptible subpopulations; (2) describe whether aggregate or sentinel exposures were considered and the basis for that consideration; (3) take into account, where relevant, the likely duration, intensity, frequency, and number of exposures under the conditions of use; and (4) describe the weight of the scientific evidence for the identified hazards and exposures. 15 U.S.C. 2605(b)(4)(F)(i) through (ii) and (iv) through (v). Each risk evaluation must not consider costs or other non-risk factors. 15 U.S.C. 2605(b)(4)(F)(iii).

EPA has inherent authority to reconsider previous decisions and to revise, replace, or

repeal a decision to the extent permitted by law and supported by reasoned explanation. *FCC v. Fox Television Stations, Inc.*, 556 U.S. 502, 515 (2009); *see also Motor Vehicle Mfrs. Ass'n v. State Farm Mutual Auto. Ins. Co.*, 463 U.S. 29, 42 (1983). Pursuant to such authority, EPA is reconsidering the risk determinations in the August 2020 1-BP Risk Evaluation

C. What action is EPA taking?

EPA is announcing the availability of and seeking public comment on a draft revision to the risk determination for the risk evaluation for 1-BP under TSCA, which was initially published in August 2020 (Ref. 1). EPA is specifically seeking public comment on the draft revision to the risk determination for the risk evaluation where the Agency intends to determine that 1-BP, as a whole chemical, presents an unreasonable risk of injury to health when evaluated under its conditions of use. The Agency's risk determination for 1-BP is better characterized as a whole chemical risk determination rather than condition-of-use-specific risk determinations. Accordingly, EPA would revise and replace section 5 of the risk evaluation for 1-BP where the findings of unreasonable risk to health were previously made for the individual conditions of use evaluated. EPA would also withdraw the order issued previously for nine conditions of use previously determined not to present unreasonable risk.

This revision would be consistent with EPA's plans to revise specific aspects of the first ten TSCA chemical risk evaluations in order to ensure that the risk evaluations better align with TSCA's objective of protecting health and the environment. Under the draft revision removing the assumptions that all workers always and appropriately use PPE (see Unit II.C.) in making the whole chemical risk determination for 1-BP would mean that: seven conditions of use in addition to the original 16 would drive the unreasonable risk determination for 1-BP; additional risks of cancer from dermal exposures would also drive the unreasonable risk to workers in six conditions of use; additional risks for acute and chronic non-cancer effects from inhalation exposures would also drive the unreasonable risk to workers in two conditions of use; and additional risks for acute and chronic non-cancer effects and cancer from inhalation and dermal

exposures to workers would also drive the unreasonable risk in one conditions of use (where previously this condition of use was identified as presenting unreasonable risk only to ONUs). Overall, 23 conditions of use out of the 25 EPA evaluated drive the 1-BP whole chemical unreasonable risk determination due to risks identified for human health. The full list of the conditions of use evaluated for the 1-BP TSCA risk evaluation is in Table 4-58 and 4-59 of the risk evaluation (Ref. 2).

D. What should I consider as I prepare my comments for EPA?

1. *Submitting CBI.* Do not submit this information to EPA through regulations.gov or email. Clearly mark the part or all of the information that you claim to be CBI. For CBI information in a disk or CD-ROM that you mail to EPA, mark the outside of the disk or CD-ROM as CBI and then identify electronically within the disk or CD-ROM the specific information that is claimed CBI. In addition to one complete version of the comment that includes information claimed as CBI, a copy of the comment that does not contain the information claimed as CBI must be submitted for inclusion in the public docket. Information so marked will not be disclosed except in accordance with procedures set forth in 40 CFR part 2.

2. *Tips for preparing your comments.* When preparing and submitting your comments, see the commenting tips at <http://www.epa.gov/dockets/comments.html>.

II. Background

A. Why is EPA re-issuing the risk determination for the 1-BP risk evaluation conducted under TSCA?

In 2016, as directed by TSCA section 6(b)(2)(A), EPA chose the first ten chemical substances to undergo risk evaluations under the amended TSCA. These chemical substances are asbestos, 1-BP, carbon tetrachloride, C.I. Pigment Violet (PV 29), cyclic aliphatic bromide cluster (HBCD), 1,4-dioxane, methylene chloride, n-methylpyrrolidone (NMP), perchloroethylene (PCE), and trichloroethylene (TCE).

From June 2020 to January 2021, EPA published risk evaluations on the first ten

chemical substances, including for 1-BP in August 2020. The risk evaluations included individual unreasonable risk determinations for each condition of use evaluated. EPA issued determinations that particular conditions of use did not present an unreasonable risk by order under TSCA section 6(i)(1).

In accordance with Executive Order 13990 (Ref. 3) and other Administration priorities (Refs. 4, 5, and 6), EPA reviewed the risk evaluations for the first ten chemical substances, including 1-BP, to ensure that they meet the requirements of TSCA, including conducting decision making in a manner that is consistent with the best available science.

As a result of this review, EPA announced plans to revise specific aspects of the first ten risk evaluations in order to ensure that the risk evaluations appropriately identify unreasonable risks and thereby help ensure the protection of human health and the environment (Ref. 7). To that end, EPA is reconsidering two key aspects of the risk determinations for 1-BP published in August 2020. First, following a review of specific aspects of the August 2020 1-BP risk evaluation, EPA proposes that making an unreasonable risk determination for 1-BP as a whole chemical substance, rather than making unreasonable risk determinations separately on each individual condition of use evaluated in the risk evaluation, is the most appropriate approach to 1-BP under the statute and implementing regulations. Second, EPA proposes that the risk determination should be explicit that it does not rely on assumptions regarding the use of personal protective equipment (PPE) in making the unreasonable risk determination under TSCA section 6, even though some facilities might be using PPE as one means to reduce workers exposures; rather, the use of PPE would be considered during risk management as appropriate.

Separately EPA is conducting a screening approach to assess potential risks from pathways excluded from evaluation for several of the first 10 chemicals, including this chemical. For 1-BP, the air exposure pathway was not fully assessed in the final risk evaluation (see section 1.4.2 of the August 2020 1-BP risk evaluation). The goal of the recently-developed screening approach is to remedy this exclusion and to identify if there are risks that were

unaccounted for in the 1-BP risk evaluation. While this analysis is underway, EPA is not incorporating the screening-level approach into this draft revised unreasonable risk determination. If the results suggest there is additional risk, EPA will determine if the risk management approaches being contemplated for 1-BP will protect against these risks or if the risk evaluation will need to be formally supplemented or revised.

This action pertains only to the risk determination for 1-BP. While EPA intends to consider and may take additional similar actions on other of the first ten chemicals, EPA is taking a chemical-specific approach to reviewing the risk evaluations and is incorporating new policy direction in a surgical manner, while being mindful of the Congressional direction on the need to complete risk evaluations and move toward any associated risk management activities in accordance with statutory deadlines.

B. What is a whole chemical view of the unreasonable risk determination for the 1-BP risk evaluation?

TSCA section 6 repeatedly refers to determining whether a chemical *substance* presents unreasonable risk under its conditions of use. Stakeholders have disagreed over whether a chemical substance should receive: A single determination that is comprehensive for the chemical substance after considering the conditions of use, referred to as a whole-chemical determination; or multiple determinations, each of which is specific to a condition of use, referred to as condition-of-use-specific determinations.

The proposed risk evaluation procedural rule was premised on the whole chemical approach to making an unreasonable risk determination (Ref. 8). In that proposed rule, EPA acknowledged a lack of specificity in statutory text that might lead to different views about whether the statute compelled EPA's risk evaluations to address all conditions of use of a chemical substance or whether EPA had discretion to evaluate some subset of conditions of use (i.e., to scope out some manufacturing, processing, distribution in commerce, use, or disposal activities), but also stated that "EPA believes the word 'the' (in TSCA section 6(b)(4)(A)) is best

interpreted as calling for evaluation that considers all conditions of use.” (Ref. 8).

The proposed rule, however, was unambiguous on the point that an unreasonable risk determination would be for the chemical substance as a whole, even if based on a subset of uses. (See Ref. 8 at pgs. 7565-66: “TSCA section 6(b)(4)(A) specifies that a risk evaluation must determine whether ‘a chemical substance’ presents an unreasonable risk of injury to health or the environment ‘under the conditions of use.’ The evaluation is on the chemical substance—not individual conditions of use—and it must be based on ‘the conditions of use.’ In this context, EPA believes the word ‘the’ is best interpreted as calling for evaluation that considers all conditions of use.”). In the proposed regulatory text, EPA proposed to determine whether the chemical substance presents an unreasonable risk of injury to health or the environment under the conditions of use. (Ref. 8 at pg. 7480).

The final risk evaluation procedural rule stated (82 FR 33726, July 20, 2017) (FRL-9964–38) (Ref. 9): “As part of the risk evaluation, EPA will determine whether the chemical substance presents an unreasonable risk of injury to health or the environment under each condition of uses [sic] within the scope of the risk evaluation, either in a single decision document or in multiple decision documents.” (See also 40 CFR 702.47). For the unreasonable risk determinations in the first ten risk evaluations, EPA applied this provision by making individual risk determinations for each condition of use evaluated in each risk evaluation (i.e., the condition-of-use-specific approach to risk determinations). That approach was based on one particular passage in the preamble to the final risk evaluation procedural rule, which stated that EPA will make individual risk determinations for all conditions of use identified in the scope (Ref. 9 at pg. 33744).

In contrast to this portion of the preamble of the final risk evaluation procedural rule, the regulatory text itself and other statements in the preamble reference a risk determination *for the chemical substance* under its conditions of use, rather than separate risk determinations for each of the conditions of use of a chemical substance. In the key regulatory provision excerpted earlier

from 40 CFR 702.47, the text explains that, “[a]s part of the risk evaluation, EPA will determine whether *the chemical substance* presents an unreasonable risk of injury to health or the environment under each condition of uses [sic] within the scope of the risk evaluation, either in a single decision document or in multiple decision documents” (Ref. 9, emphasis added). Other language reiterates this perspective. For example, 40 CFR 702.31(a) states that the purpose of the rule is to establish the EPA process for conducting a risk evaluation to determine whether a chemical substance presents an unreasonable risk of injury to health or the environment as required under TSCA section 6(b)(4)(B). Likewise, there are recurring references to whether the chemical substance presents an unreasonable risk in 40 CFR 702.41(a). See, for example, 40 CFR 702.41(a)(6), which explains that the extent to which EPA will refine its evaluations for one or more condition of use in any risk evaluation will vary as necessary to determine whether a chemical substance presents an unreasonable risk. Notwithstanding the one preambular statement about condition-of-use-specific risk determinations, the preamble to the final rule also contains support for a risk determination on the chemical substance as a whole. In discussing the identification of the conditions of use of a chemical substance, the preamble notes that this task inevitably involves the exercise of discretion on EPA’s part, and, “as EPA interprets the statute, the Agency is to exercise that discretion consistent with the objective of conducting a technically sound, manageable evaluation to determine whether a chemical substance—not just individual uses or activities—presents an unreasonable risk.” (Ref. 8 at pg. 33729).

Therefore, notwithstanding EPA’s choice to issue condition-of-use-specific risk determinations to date, EPA interprets its risk evaluation regulation to also allow the Agency to issue whole-chemical risk determinations. Either approach is permissible under the regulation. A panel of the Ninth Circuit Court of Appeals also recognized the ambiguity of the regulation on this point. *Safer Chemicals v. EPA*, 943 F.3d 397, 413 (9th Cir. 2019) (holding a challenge about “use-by-use risk evaluations [was] not justiciable because it is not clear, due to the ambiguous text of the Risk Evaluation Rule, whether the Agency will actually conduct risk evaluations in

the manner Petitioners fear”).

EPA plans to consider the appropriate approach for each chemical substance risk evaluation on a case-by-case basis, taking into account considerations relevant to the specific chemical substance in light of the Agency's obligations under TSCA. The Agency expects that this case-by-case approach will provide greater flexibility in the Agency's ability to evaluate and manage unreasonable risk from individual chemical substances. EPA believes this is a reasonable approach under TSCA and the Agency's implementing regulations.

With regard to the specific circumstances of 1-BP, as further explained in this notice, EPA proposes that a whole chemical approach is appropriate for 1-BP in order to protect human health and the environment. The whole chemical approach is appropriate for 1-BP because there are benchmark exceedances for multiple conditions of use (spanning across most aspects of the chemical lifecycle—from manufacturing (including import), processing, commercial and industrial use, consumer use, and disposal) for health of workers, occupational non-users, consumers, and bystanders and the irreversible health effects (specifically developmental toxicity and cancer) associated with 1-BP exposures. Because these chemical-specific properties cut across the conditions of use within the scope of the risk evaluation, a substantial amount of the conditions of use drive the unreasonable risk; therefore it is appropriate for the Agency to make a determination for 1-BP that the whole chemical presents an unreasonable risk.

As explained later in this document, the revisions to the unreasonable risk determination (section 5 of the risk evaluation) would be based on the existing risk characterization section of the risk evaluation (section 4 of the risk evaluation) and would not involve additional technical or scientific analysis. The discussion of the issues presented in this **Federal Register** notice and in the accompanying draft revision to the risk determination would supersede any conflicting statements in the prior 1-BP risk evaluation and the response to comments document (Ref. 10). With respect to the 1-BP risk evaluation, EPA intends to change the risk determination to a whole chemical approach without considering the use of PPE and does not intend to amend, nor

does a whole chemical approach require amending, the underlying scientific analysis of the risk evaluation in the risk characterization section of the risk evaluation. EPA views the peer reviewed hazard and exposure assessments and associated risk characterization as robust and upholding the standards of best available science and weight of the scientific evidence per TSCA sections 26(h) and (i).

EPA is announcing the availability of and seeking public comment on the draft superseding unreasonable risk determination for 1-BP, including a description of the risks driving the unreasonable risk determination under the condition of use for the chemical substance as a whole. For purposes of TSCA section 6(i), EPA is making a draft risk determination on 1-BP as a whole chemical. Under the proposed revised approach, the “whole chemical” risk determination for 1-BP would supersede the no unreasonable risk determinations for 1-BP that were premised on a condition-of-use-specific approach to determining unreasonable risk. When finalized, EPA’s revised unreasonable risk determination would also contain an order withdrawing the TSCA section 6(i)(1) order in section 5.4.1 of the August 2020 1-BP risk evaluation.

C. What revision does EPA propose about the use of PPE for the 1-BP risk evaluation?

In the risk evaluations for the first ten chemical substances, as part of the unreasonable risk determination, EPA assumed for several conditions of use that all workers were provided and always used PPE in a manner that achieves the stated assigned protection factor (APF) for respiratory protection, or used impervious gloves for dermal protection. In support of this assumption, EPA considered reasonably available information such as public comments indicating that some employers, particularly in the industrial setting, provide PPE to their employees and follow established worker protection standards (e.g., Occupational Safety and Health Administration (OSHA) requirements for protection of workers).

For the August 2020 1-BP risk evaluation, EPA assumed based on reasonably available information that workers use PPE—specifically, respirators with an APF of 10 or 50, or gloves

with a protection factor (PF) of 5—for 15 of 16 occupational conditions of use. However, in the August 2020 1-BP risk evaluation, EPA determined that there is unreasonable risk for nine of these occupational conditions of use even with this assumed PPE use.

EPA is revising the assumption for 1-BP that workers always or properly use PPE, although it does not question the public comments received regarding the occupational safety practices often followed by industry respondents. When characterizing the risk to human health from occupational exposures during risk evaluation under TSCA, EPA believes it is appropriate to evaluate the levels of risk present in baseline scenarios where PPE is not assumed to be used by workers. This approach of not assuming PPE use by workers considers the risk to potentially exposed or susceptible subpopulations (workers and occupational non-users) who may not be covered by OSHA standards, such as self-employed individuals and public sector workers who are not covered by a State Plan. It should be noted that, in some cases, baseline conditions may reflect certain mitigation measures, such as engineering controls, in instances where exposure estimates are based on monitoring data at facilities that have engineering controls in place.

In addition, EPA believes it is appropriate to evaluate the levels of risk present in scenarios considering applicable OSHA requirements (e.g., chemical-specific permissible exposure limits (PELs) and/or chemical-specific PELs with additional substance-specific standards) as well as scenarios considering industry or sector best practices for industrial hygiene that are clearly articulated to the Agency. Consistent with this approach, the August 2020 1-BP risk evaluation characterized risk to workers both with and without the use of PPE. By characterizing risks using scenarios that reflect different levels of mitigation, EPA risk evaluations can help inform potential risk management actions by providing information that could be used during risk management to tailor risk mitigation appropriately to address any unreasonable risk identified, or to ensure that applicable OSHA requirements or industry or sector best practices that address the unreasonable risk are required for all potentially exposed or susceptible subpopulations (including self-employed individuals and public sector workers who

are not covered by an OSHA State Plan).

When undertaking unreasonable risk determinations as part of TSCA risk evaluations, however, EPA does not believe it is appropriate to assume as a general matter that an applicable OSHA requirement or industry practices related to PPE use is consistently and always properly applied. Mitigation scenarios included in the EPA risk evaluation (e.g., scenarios considering use of various PPE) likely represent what is happening already in some facilities. However, the Agency cannot assume that all facilities have adopted these practices for the purposes of making the TSCA risk determination.

Therefore, EPA proposes to make a determination of unreasonable risk for 1-BP from a baseline scenario that does not assume compliance with OSHA standards, including any applicable exposure limits or requirements for use of respiratory protection or other PPE. Making unreasonable risk determinations based on the baseline scenario should not be viewed as an indication that EPA believes there are no occupational safety protections in place at any location, or that there is widespread non-compliance with applicable OSHA standards. EPA understands that there could be occupational safety protections in place at workplace locations; however, not assuming use of PPE reflects EPA's recognition that unreasonable risk may exist for subpopulations of workers that may be highly exposed because they are not covered by OSHA standards, such as self-employed individuals and public sector workers who are not covered by a State Plan, or because their employer is out of compliance with OSHA standards, or because OSHA has not issued a permissible exposure limit (PEL) (as is the case for 1-BP, noting that many of OSHA's chemical-specific permissible exposure limits largely adopted in the 1970's are described by OSHA as being "outdated and inadequate for ensuring protection of worker health" (Ref. 11), or because EPA finds unreasonable risk for purposes of TSCA notwithstanding OSHA requirements.

In accordance with this approach, EPA is proposing the draft revision to the 1-BP risk determination without relying on assumptions regarding the occupational use of PPE in making

the unreasonable risk determination under TSCA section 6; rather, information on the use of PPE as a means of mitigating risk (including information received from industry respondents about occupational safety practices in use) would be considered during the risk management phase as appropriate. This would represent a change from the approach taken in the 2020 risk evaluation for 1-BP and EPA invites comments on this draft change to the 1-BP risk determination. As a general matter, when undertaking risk management actions, EPA intends to strive for consistency with applicable OSHA requirements and industry best practices, including appropriate application of the hierarchy of controls, when those measures would address an identified unreasonable risk, including unreasonable risk to potentially exposed or susceptible subpopulations. Consistent with TSCA section 9(d), EPA will consult and coordinate TSCA activities with OSHA and other relevant Federal agencies for the purpose of achieving the maximum applicability of TSCA while avoiding the imposition of duplicative requirements. Informed by the mitigation scenarios and information gathered during the risk evaluation and risk management process, the Agency might propose rules that require risk management practices that may be already common practice in many or most facilities. Adopting clear, comprehensive regulatory standards will foster compliance across all facilities (ensuring a level playing field) and assure protections for all affected workers, especially in cases where current OSHA standards may not apply or be sufficient to address the unreasonable risk.

Removing the assumption that workers always and appropriately use PPE in making the whole chemical risk determination for 1-BP would add seven conditions of use to the original 16 conditions of use that drive the unreasonable risk. The seven conditions of use affected by this change are: manufacturing (domestic manufacturing); manufacturing (import); processing: as a reactant; processing: incorporation into articles; processing: repackaging; processing: recycling; and disposal. Additionally, removing this assumption would add: additional risks of cancer from dermal exposures as driving the unreasonable risk to workers in six conditions of use; additional risks for acute and chronic non-cancer effects from inhalation exposures as driving the

unreasonable risk to workers in two conditions of use; and additional risks for acute and chronic non-cancer effects and cancer from inhalation and dermal exposures to workers as driving the unreasonable risk in one conditions of use (where previously this condition of use was identified as presenting unreasonable risk only to ONUs) (Ref. 1). The draft revision to the risk determination would clarify that EPA does not rely on the assumed use of PPE when making the risk determination for the whole substance. EPA is requesting comment on this potential change.

D. What is 1-BP?

1-BP is a colorless liquid with a sweet odor. It is a brominated hydrocarbon that is slightly soluble in water. 1-BP is a volatile organic compound that exhibits high volatility, a low boiling point, low flammability and no explosivity. 1-BP is produced and imported in the United States and has a wide range of uses, including as a solvent in degreasing operations, spray adhesives and dry cleaning; as a reactant in the manufacturing of other chemical substances; and in laboratory uses. There are also a variety of consumer and commercial products that contain 1-BP, such as aerosol degreasers, spot cleaners, stain removers, and insulation for building and construction materials. The total aggregate production volume reported for 1-BP under the Chemical Data Reporting rule ranged from 15.4 million to 25.8 million pounds between 2012 and 2015.

E. What conclusions did EPA reach about the risks of 1-BP in the 2020 TSCA risk evaluation and what conclusions is EPA proposing to reach based on the whole chemical approach and not assuming the use of PPE?

In the 2020 risk evaluation, EPA determined that 1-BP presents an unreasonable risk to health under the following conditions of use:

- Processing for incorporation into formulation, mixture or reaction product
- Industrial and commercial use as solvent for cleaning and degreasing in vapor degreaser (batch vapor degreaser – open-top, inline vapor degreaser)
- Industrial and commercial use as solvent for cleaning and degreasing in vapor degreaser

(batch vapor degreaser – closed-loop)

- Industrial and commercial use as solvent for cleaning and degreasing in cold cleaners
- Industrial and commercial use as solvent in aerosol spray degreaser/cleaner
- Industrial and commercial use in adhesives and sealants
- Industrial and commercial use in dry cleaning solvents, spot cleaners and stain removers
- Industrial and commercial use in liquid cleaners (*e.g.*, coin and scissor cleaner) and liquid spray/aerosol cleaners
- Other industrial and commercial uses: arts, crafts, hobby materials (adhesives accelerant); automotive care products (engine degrease, brake cleaner, refrigerant flush); anti-adhesive agents (mold cleaning and release product); electronic and electronic products and metal products; functional fluids (close/open-systems) – refrigerant/cutting oils; asphalt extraction; laboratory chemicals; and temperature indicator – coatings
- Consumer use as solvent in aerosol spray degreasers/cleaners
- Consumer use in spot cleaners and stain removers
- Consumer use in liquid cleaners (*e.g.*, coin and scissor cleaners)
- Consumer use in liquid spray/aerosol cleaners
- Consumer use in arts, crafts, hobby materials (adhesive accelerant)
- Consumer use in automotive care products (refrigerant flush)
- Consumer use in anti-adhesives agents (mold cleaning and release product)

Under the proposed whole chemical approach to the 1-BP risk determination, the unreasonable risk from 1-BP would continue to be driven by risk from those same conditions of use. In addition, by removing the assumption that workers always and appropriately wear PPE (see Unit II.C.) in making the whole chemical risk determination for 1-BP, seven conditions of use in addition to the original 16 would drive the draft unreasonable risk determination:

- Manufacture (domestic manufacturing)
- Manufacture (import)

- Processing as a reactant
- Processing for incorporation into articles
- Processing by repackaging
- Recycling
- Disposal

Overall, 23 conditions of use out of the 25 EPA evaluated would drive the 1-BP whole chemical unreasonable risk determination.

III. Revision of the August 2020 Risk Evaluation

A. Why is EPA proposing to revise the risk determination for the 1-BP risk evaluation?

EPA is proposing to revise the risk determination for the 1-BP risk evaluation pursuant to TSCA section 6(b) and consistent with Executive Order 13990, (“Protecting Public Health and the Environment and Restoring Science to Tackle the Climate Crisis”) and other Administration priorities (Refs. 3, 4, and 6). EPA is revising specific aspects of the first ten TSCA existing chemical risk evaluations in order to ensure that the risk evaluations better align with TSCA’s objective of protecting health and the environment. For the 1-BP risk evaluation, this includes the draft revision: 1) making the risk determination in this instance based on the whole chemical substance instead of by individual conditions of use and 2) emphasizing that EPA does not rely on the assumed use of PPE when making the risk determination.

B. What are the draft revisions?

EPA is releasing a draft revision of the risk determination for the 1-BP risk evaluation pursuant to TSCA section 6(b). Under the revised determination, EPA preliminarily concludes that 1-BP, as evaluated in the risk evaluation as a whole, presents an unreasonable risk of injury to health under its conditions of use. This revision would replace the previous unreasonable risk determinations made for 1-BP by individual conditions of use, supersede the determinations (and withdraw the associated order) of no unreasonable risk for the conditions of use identified the TSCA section 6(i)(1) no unreasonable risk order, and clarify the lack of reliance on assumed use

of PPE as part of the risk determination.

These draft revisions do not alter any of the underlying technical or scientific information that informs the risk characterization, and as such the hazard, exposure, and risk characterization sections are not changed except to the extent that statements about PPE assumptions in section 2.3.1.3 (Consideration of Engineering Controls and PPE) and section 4.2.2 (Occupational Inhalation Exposure Summary and PPE Use Determinations by OES) of the 1-BP risk evaluation would be superseded. The discussion of the issues in this notice and in the accompanying draft revision to the risk determination would supersede any conflicting statements in the prior executive summary and sections 2.3.1.3 and 4.2.2 from the 1-BP risk evaluation and the response to comments document (Refs. 2 and 10). Additional policy changes to other chemical risk evaluations, including any consideration of potentially exposed and susceptible subpopulations and/or inclusion of additional exposure pathways, are not necessarily reflected in these draft revisions to the risk determination.

C. Will the draft revised risk determination be peer reviewed?

The risk determination (section 5 in the August 2020 risk evaluation) was not part of the scope of the peer reviews of the 1-BP risk evaluation by the Science Advisory Committee on Chemicals (SACC). Thus, consistent with that approach, EPA does not intend to conduct peer review of the draft revised unreasonable risk determination for the 1-BP risk evaluation because no technical or scientific changes will be made to the hazard or exposure assessments or the risk characterization.

D. What are the next steps for finalizing revisions to the risk determination?

EPA will review and consider public comment received on the draft revised risk determination for the 1-BP risk evaluation and, after considering those public comments, issue the revised final 1-BP risk determination. If finalized as drafted, EPA would also issue a new order to withdraw the TSCA section 6(i)(1) no unreasonable risk order issued in Section 5.4.1 of the 2020 1-BP risk evaluation. This final revised risk determination would supersede the August

2020 risk determinations of no unreasonable risk. Consistent with the statutory requirements of TSCA section 6(a), the Agency would then propose risk management actions to address the unreasonable risk determined in the 1-BP risk evaluation.

IV. References

The following is a listing of the documents that are specifically referenced in this document. The docket includes these documents and other information considered by EPA, including documents that are referenced within the documents that are included in the docket, even if the referenced document is not physically located in the docket. For assistance in locating these other documents, please consult the person listed under **FOR FURTHER INFORMATION CONTACT**.

1. EPA Draft Revised Unreasonable Risk Determination for 1-Bromopropane, Section 5, July 2022.
2. EPA Risk Evaluation for 1-Bromopropane. EPA Document #740-R1-8013. August 2020. <https://www.regulations.gov/document/EPA-HQ-OPPT-2019-0235-0085>
3. Executive Order 13990. Protecting Public Health and the Environment and Restoring Science to Tackle the Climate Crisis. *Federal Register*. 86 FR 7037, January 25, 2021.
4. Executive Order 13985. Advancing Racial Equity and Support for Underserved Communities Through the Federal Government. *Federal Register*. 86 FR 7009, January 25, 2021.
5. Executive Order 14008. Tackling the Climate Crisis at Home and Abroad. *Federal Register*. 86 FR 7619, February 1, 2021.
6. Presidential Memorandum. Memorandum on Restoring Trust in Government Through Scientific Integrity and Evidence-Based Policymaking. *Federal Register*. 86 FR 8845, February 10, 2021.
7. EPA Press Release. EPA Announces Path Forward for TSCA Chemical Risk Evaluations. June 2021. <https://www.epa.gov/newsreleases/epa-announces-path-forward-tsca->

chemical-risk-evaluations.

8. EPA. Proposed Rule; Procedures for Chemical Risk Evaluation Under the Amended Toxic Substances Control Act. *Federal Register*. 82 FR 7562, January 19, 2017 (FRL-9957-75).

9. EPA. Final Rule; Procedures for Chemical Risk Evaluation Under the Amended Toxic Substances Control Act. *Federal Register*. 82 FR 33726, July 20, 2017 (FRL-9964-38).

10. EPA. Summary of External Peer Review and Public Comments and Disposition for 1-Bromopropane (1-BP). August 2020. <https://www.regulations.gov/document/EPA-HQ-OPPT-2019-0235-0066>.

11. Occupational Safety and Health Administration. Permissible Exposure Limits – Annotated Tables. Accessed June 13, 2022. <https://www.osha.gov/annotated-pels>.

Authority: 15 U.S.C. 2601 *et seq.*

Dated: July 14, 2022.

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[FR Doc. 2022-15516 Filed: 7/19/2022 8:45 am; Publication Date: 7/20/2022]